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RAW SEQUENCE LISTING

DATE: 05/07/2002

PATENT APPLICATION: US/10/040,647

TIME: 11:16:47

Input Set : N:\Crf3\RULE60\10040647.raw

Output Set: N:\CRF3\05072002\J040647.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David

7 (ii) TITLE OF INVENTION: NOVEL MOLECULES

9 (iii) NUMBER OF SEQUENCES: 30

11 (iv) CORRESPONDENCE ADDRESS:

12 (A) ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER

13 (B) STREET: 400 GARDEN CITY PLAZA

14 (C) CITY: GARDEN CITY

15 (D) STATE: NEW YORK

16 (E) COUNTRY: USA

17 (F) ZIP: 11530

19 (v) COMPUTER READABLE FORM:

20 (A) MEDIUM TYPE: Floppy disk

21 (B) COMPUTER: IBM PC compatible

22 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

23 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

25 (vi) CURRENT APPLICATION DATA:

26 (A) APPLICATION NUMBER: US/10/040,647

C--> 27 (B) FILING DATE: 07-Jan-2002

28 (C) CLASSIFICATION:

42 (vii) PRIOR APPLICATION DATA:

31 (A) APPLICATION NUMBER: 09/023,942

32 (B) FILING DATE:

36 (A) APPLICATION NUMBER: P05101/97

37 (B) FILING DATE: 13-FEB-1997

40 (A) APPLICATION NUMBER: PP0422/97

41 (B) FILING DATE: 18-NOV-1997

43 (A) APPLICATION NUMBER: International PCT Application

44 (B) FILING DATE: 13-FEB-1998

46 (viii) ATTORNEY/AGENT INFORMATION:

47 (A) NAME: DIGIGLIO, FRANK S

48 (B) REGISTRATION NUMBER: 31,346

49 (C) REFERENCE/DOCKET NUMBER: 11168

51 (ix) TELECOMMUNICATION INFORMATION:

52 (A) TELEPHONE: (516) 742 4343

53 (B) TELEFAX: (516) 742 4366

54 (C) TELEX: 230 901 SANS UR

58 (2) INFORMATION FOR SEQ ID NO: 1:

60 (i) SEQUENCE CHARACTERISTICS:

61 (A) LENGTH: 32 base pairs

62 (B) TYPE: nucleic acid

63 (C) STRANDEDNESS: single

ENTERED

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64 (D) TOPOLOGY: linear
W--> 66 (ii) MOLECULE TYPE: DNA
68 (ix) FEATURE:
69 (A) NAME/KEY: modified base
70 (B) LOCATION: 15
71 (D) OTHER INFORMATION: N equals Inosine
73 (ix) FEATURE:
74 (A) NAME/KEY: modified base
75 (B) LOCATION: 18
76 (D) OTHER INFORMATION: N equals Inosine
78 (ix) FEATURE:
79 (A) NAME/KEY: modified base
80 (B) LOCATION: 21
81 (D) OTHER INFORMATION: N equals Inosine
84 (ix) FEATURE:
85 (A) NAME/KEY: modified base
86 (B) LOCATION: 24
87 (D) OTHER INFORMATION: N equals Inosine
90 (ix) FEATURE:
91 (A) NAME/KEY: modified base
92 (B) LOCATION: 27
93 (D) OTHER INFORMATION: N equals Inosine
95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
97 ACAGAATTCT GGGTNGTNAC NGCNGCNCAY TG 32
100 (2) INFORMATION FOR SEQ ID NO: 2:
102 (i) SEQUENCE CHARACTERISTICS:
103 (A) LENGTH: 29 base pairs
104 (B) TYPE: nucleic acid
105 (C) STRANDEDNESS: single
106 (D) TOPOLOGY: linear
W--> 108 (ii) MOLECULE TYPE: DNA
110 (ix) FEATURE:
111 (A) NAME/KEY: modified base
112 (B) LOCATION: 12
113 (D) OTHER INFORMATION: N equals Inosine
115 (ix) FEATURE:
116 (A) NAME/KEY: modified base
117 (B) LOCATION: 15
118 (D) OTHER INFORMATION: N equals Inosine
120 (ix) FEATURE:
121 (A) NAME/KEY: modified base
122 (B) LOCATION: 18
123 (D) OTHER INFORMATION: N equals Inosine
125 (ix) FEATURE:
126 (A) NAME/KEY: modified base
127 (B) LOCATION: 21
128 (D) OTHER INFORMATION: N equals Inosine
130 (ix) FEATURE:
131 (A) NAME/KEY: modified base

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132	(B) LOCATION: 27	
133	(D) OTHER INFORMATION: N equals Inosine	
135	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:	
137	ACAGAATTCA RNGGNCCNCC NSWRTCNCC	29
140	(2) INFORMATION FOR SEQ ID NO: 3:	
142	(i) SEQUENCE CHARACTERISTICS:	
143	(A) LENGTH: 1094 base pairs	
144	(B) TYPE: nucleic acid	
145	(C) STRANDEDNESS: single	
146	(D) TOPOLOGY: linear	
W--> 148	(ii) MOLECULE TYPE: DNA	
150	(ix) FEATURE:	
151	(A) NAME/KEY: CDS	
152	(B) LOCATION: 17..955	
154	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
156	CGCGGGGAGAG GAGGCC ATG GGC GCG CGC GGG GCG CTG CTG CTG GCG CTG	49
157	Met Gly Ala Arg Gly Ala Leu Leu Leu Ala Leu	
158	1 5 10	
160	CTG CTG GCT CGG GGT CTC AGG AAG CCG GAG TCG CAG GAG GCG GCG	97
161	Leu Leu Ala Arg Ala Gly Leu Arg Lys Pro Glu Ser Gln Glu Ala Ala	
162	15 20 25	
164	CCG TTA TCA GGA CCA TGC GGC CGA CGG GTC ATC ACG TCG CGC ATC GTG	145
165	Pro Leu Ser Gly Pro Cys Gly Arg Arg Val Ile Thr Ser Arg Ile Val	
166	30 35 40	
168	GGT GGA GAG GAC GCC GAA CTC GGG CGT TGG CCG TGG CAG GGG AGC CTG	193
169	Gly Gly Glu Asp Ala Glu Leu Gly Arg Trp Pro Trp Gln Gly Ser Leu	
170	45 50 55	
172	CGC CTG TGG GAT TCC CAC GTA TGC GGA GTG AGC CTG CTC AGC CAC CGC	241
173	Arg Leu Trp Asp Ser His Val Cys Gly Val Ser Leu Leu Ser His Arg	
174	60 65 70 75	
176	TGG GCA CTC ACG GCG GCG CAC TGC TTT GAA ACT GAC CTT AGT GAT CCC	289
177	Trp Ala Leu Thr Ala Ala His Cys Phe Glu Thr Asp Leu Ser Asp Pro	
178	80 85 90	
180	TCC GGG TGG ATG GTC CAG TTT GGC CAG CTG ACT TCC ATG CCA TCC TTC	337
181	Ser Gly Trp Met Val Gln Phe Gly Gln Leu Thr Ser Met Pro Ser Phe	
182	95 100 105	
184	TGG AGC CTG CAG GCC TAC ACC CGT TAC TTC GTA TCG AAT ATC TAT	385
185	Trp Ser Leu Gln Ala Tyr Tyr Thr Arg Tyr Phe Val Ser Asn Ile Tyr	
186	110 115 120	
187	CTG AGC CCT CGC TAC CTG GGG AAT TCA CCC TAT GAC ATT GCC TTG GTG	433
188	Leu Ser Pro Arg Tyr Leu Gly Asn Ser Pro Tyr Asp Ile Ala Leu Val	
189	125 130 135	
191	AAG CTG TCT GCA CCT GTC ACC TAC ACT AAA CAC ATC CAG CCC ATC TGT	481
192	Lys Leu Ser Ala Pro Val Thr Tyr Thr Lys His Ile Gln Pro Ile Cys	
193	140 145 150 155	
195	CTC CAG GCC TCC ACA TTT GAG TTT GAG AAC CGG ACA GAC TGC TGG GTG	529
196	Leu Gln Ala Ser Thr Phe Glu Phe Glu Asn Arg Thr Asp Cys Trp Val	
197	160 165 170	
199	ACT GGC TGG GGG TAC ATC AAA GAG GAT GAG GCA CTG CCA TCT CCC CAC	577

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200	Thr	Gly	Trp	Gly	Tyr	Ile	Lys	Glu	Asp	Glu	Ala	Leu	Pro	Ser	Pro	His
201			175				180						185			
203	ACC	CTC	CAG	GAA	GTT	CAG	GTC	GCC	ATC	ATA	AAC	AAC	TCT	ATG	TGC	AAC
204	Thr	Leu	Gln	Glu	Val	Gln	Val	Ala	Ile	Ile	Asn	Asn	Ser	Met	Cys	Asn
205			190				195						200			
207	CAC	CTC	TTC	CTC	AAG	TAC	AGT	TTC	CGC	AAG	GAC	ATC	TTT	GGA	GAC	ATG
208	His	Leu	Phe	Leu	Lys	Tyr	Ser	Phe	Arg	Lys	Asp	Ile	Phe	Gly	Asp	Met
209			205				210					215				
211	GTT	TGT	GCT	GGC	AAT	GCC	CAA	GGC	GGG	AAG	GAT	GCC	TGC	TTC	GGT	GAC
212	Val	Cys	Ala	Gly	Asn	Ala	Gln	Gly	Gly	Lys	Asp	Ala	Cys	Phe	Gly	Asp
213	220				225				230			235				
215	TCA	GGT	GGA	CCC	TTG	GCC	TGT	AAC	AAG	GAT	GGA	CTG	TGG	TAT	CAG	ATT
216	Ser	Gly	Gly	Pro	Leu	Ala	Cys	Asn	Lys	Asp	Gly	Leu	Trp	Tyr	Gln	Ile
217					240				245			250				
219	GGA	GTC	GTG	AGC	TGG	GGA	GTG	GGC	TGT	GGT	CGG	CCC	AAT	CGG	CCC	GGT
220	Gly	Val	Val	Ser	Trp	Gly	Val	Gly	Cys	Gly	Arg	Pro	Asn	Arg	Pro	Gly
221				255			260			265						
223	GTC	TAC	ACC	AAT	ATC	AGC	CAC	CAC	TTT	GAG	TGG	ATC	CAG	AAG	CTG	ATG
224	Val	Tyr	Thr	Asn	Ile	Ser	His	His	Phe	Glu	Trp	Ile	Gln	Lys	Leu	Met
225				270			275			280						
226	GCC	CAG	AGT	GGC	ATG	TCC	CAG	CCA	GAC	CCC	TCC	TGG	CCG	CTA	CTC	TTT
227	Ala	Gln	Ser	Gly	Met	Ser	Gln	Pro	Asp	Pro	Ser	Trp	Pro	Leu	Leu	Phe
228		285				290			295							
230	TTC	CCT	CTC	TGG	GCT	CTC	CCA	CTC	CTG	GGG	CCG	GTC	TGA			955
231	Phe	Pro	Leu	Leu	Trp	Ala	Leu	Pro	Leu	Leu	Gly	Pro	Val	*		
232	300			305				310								
234	GCCTACCTGA	GCCCCATGCAG	CCTGGGGCCA	CTGCCAAGTC	AGGCCCTGGT	TCTCTTCTGT										1015
236	CTTGTTGGT	AATAAACACA	TTCCAGTTGA	TGCCTTGCAG	GGCATTTC	AAAAAAAAAA										1075
238	AAAAAAAAAA	AAAAAAA														1094

241 (2) INFORMATION FOR SEQ ID NO: 4:

243 (i) SEQUENCE CHARACTERISTICS:

- 244 (A) LENGTH: 312 amino acids
- 245 (B) TYPE: amino acid
- 246 (D) TOPOLOGY: linear

248 (ii) MOLECULE TYPE: protein

250 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

252	Met	Gly	Ala	Arg	Gly	Ala	Leu	Leu	Leu	Ala	Leu	Leu	Ala	Arg	Ala	
253	1			5			10			15						
255	Gly	Leu	Arg	Lys	Pro	Glu	Ser	Gln	Glu	Ala	Ala	Pro	Leu	Ser	Gly	Pro
256				20			25			30						
258	Cys	Gly	Arg	Arg	Val	Ile	Thr	Ser	Arg	Ile	Val	Gly	Gly	Glu	Asp	Ala
259				35			40			45						
261	Glu	Leu	Gly	Arg	Trp	Pro	Trp	Gln	Gly	Ser	Leu	Arg	Leu	Trp	Asp	Ser
262				50			55			60						
264	His	Val	Cys	Gly	Val	Ser	Leu	Leu	Ser	His	Arg	Trp	Ala	Leu	Thr	Ala
265				65			70			75			80			
267	Ala	His	Cys	Phe	Glu	Thr	Asp	Leu	Ser	Asp	Pro	Ser	Gly	Trp	Met	Val
268				85			90			95						
270	Gln	Phe	Gly	Gln	Leu	Thr	Ser	Met	Pro	Ser	Phe	Trp	Ser	Leu	Gln	Ala

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271	100	105	110	
273	Tyr Tyr Thr Arg Tyr Phe Val Ser Asn Ile Tyr Leu Ser Pro Arg Tyr			
274	115	120	125	
276	Leu Gly Asn Ser Pro Tyr Asp Ile Ala Leu Val Lys Leu Ser Ala Pro			
277	130	135	140	
279	Val Thr Tyr Thr Lys His Ile Gln Pro Ile Cys Leu Gln Ala Ser Thr			
280	145	150	155	160
282	Phe Glu Phe Glu Asn Arg Thr Asp Cys Trp Val Thr Gly Trp Gly Tyr			
283	165	170	175	
285	Ile Lys Glu Asp Glu Ala Leu Pro Ser Pro His Thr Leu Gln Glu Val			
286	180	185	190	
288	Gln Val Ala Ile Ile Asn Asn Ser Met Cys Asn His Leu Phe Leu Lys			
289	195	200	205	
291	Tyr Ser Phe Arg Lys Asp Ile Phe Gly Asp Met Val Cys Ala Gly Asn			
292	210	215	220	
294	Ala Gln Gly Gly Lys Asp Ala Cys Phe Gly Asp Ser Gly Gly Pro Leu			
295	225	230	235	240
297	Ala Cys Asn Lys Asp Gly Leu Trp Tyr Gln Ile Gly Val Val Ser Trp			
298	245	250	255	
300	Gly Val Gly Cys Gly Arg Pro Asn Arg Pro Gly Val Tyr Thr Asn Ile			
301	260	265	270	
303	Ser His His Phe Glu Trp Ile Gln Lys Leu Met Ala Gln Ser Gly Met			
304	275	280	285	
306	Ser Gln Pro Asp Pro Ser Trp Pro Leu Leu Phe Phe Pro Leu Leu Trp			
307	290	295	300	
309	Ala Leu Pro Leu Leu Gly Pro Val			
310	305	310		
313	(2) INFORMATION FOR SEQ ID NO: 5:			
315	(i) SEQUENCE CHARACTERISTICS:			
316	(A) LENGTH: 1100 base pairs			
317	(B) TYPE: nucleic acid			
318	(C) STRANDEDNESS: single			
319	(D) TOPOLOGY: linear			
W--> 321	(ii) MOLECULE TYPE: DNA			
323	(ix) FEATURE:			
324	(A) NAME/KEY: CDS			
325	(B) LOCATION: 17..961			
327	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:			
329	CGCGGGAGAG GAGGCC ATG GGC GCG CGC GGG GCG CTG CTG CTG GCG CTG	49		
330	Met Gly Ala Arg Gly Ala Leu Leu Leu Ala Leu			
331	1	5	10	
333	CTG CTG GCT CGG GCT GGA CTC AGG AAG CCG GAG TCG CAG GAG GCG GCG	97		
334	Leu Leu Ala Arg Ala Gly Leu Arg Lys Pro Glu Ser Gln Glu Ala Ala			
335	15	20	25	
337	CCG TTA TCA GGA CCA TGC GGC CGA CGG GTC ATC ACG TCG CGC ATC GTG	145		
338	Pro Leu Ser Gly Pro Cys Gly Arg Arg Val Ile Thr Ser Arg Ile Val			
339	30	35	40	
341	GGT GGA GAG GAC GCC GAA CTC GGG CGT TGG CCG TGG CAG GGG AGC CTG	193		
342	Gly Gly Glu Asp Ala Glu Leu Gly Arg Trp Pro Trp Gln Gly Ser Leu			

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/040,647

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Input Set : N:\Crf3\RULE60\10040647.raw
Output Set: N:\CRF3\05072002\J040647.raw

L:26 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:27 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:66 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:108 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
L:148 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3
L:321 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:406 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:495 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:641 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:928 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:944 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12
L:959 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13
L:973 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14
L:1030 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=18
L:1043 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=19
L:1057 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=20
L:1071 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=21
L:1085 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=22
L:1099 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23
L:1128 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25
L:1287 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27
L:1430 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28
L:1483 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29
L:1527 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30